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0009695419 *Drawing available*

WPI Acc no: 1999-302900/199925

XRAM Acc no: C1999-088884

Use of new and known 1,3-azole compounds as adenosine A3 receptors antagonists

Patent Assignee: TAKEDA CHEM IND LTD (TAKE)

Inventor: KANZAKI N; KIMURA H; OHKAWA S; OOKAWA S

Patent Family (8 patents, 81 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1999021555	A2	19990506	WO 1998JP4837	A	19981026	199925	B
AU 199896480	A	19990517	AU 199896480	A	19981026	199939	E
JP 11193281	A	19990721	JP 1998303623	A	19981026	199939	E
EP 1027050	A2	20000816	EP 1998950388	A	19981026	200040	E
			WO 1998JP4837	A	19981026		
US 6436966	B1	20020820	WO 1998JP4837	A	19981026	200257	E
			US 2000463639	A	20000127		
US 6620825	B1	20030916	WO 1998JP4837	A	19981026	200362	E
			US 2000463639	A	20000127		
			US 2002161181	A	20020603		
EP 1027050	B1	20040114	EP 1998950388	A	19981026	200406	E
			WO 1998JP4837	A	19981026		
DE 69821132	E	20040219	DE 69821132	A	19981026	200419	E
			EP 1998950388	A	19981026		
			WO 1998JP4837	A	19981026		

Priority Applications (no., kind, date): JP 1997294485 A 19971027

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
WO 1999021555	A2	EN	127	0	
National Designated States,Original	AL AM AU AZ BA BB BG BR BY CA CN CU CZ EE GD GE HR HU ID IL IS JP KG KR KZ LC LK LR LT LV MD MG MK MN MX NO NZ PL RO RU SG SI SK SL TJ TM TR TT UA US UZ VN YU				
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW				
AU 199896480	A	EN			Based on OPI patent WO 1999021555

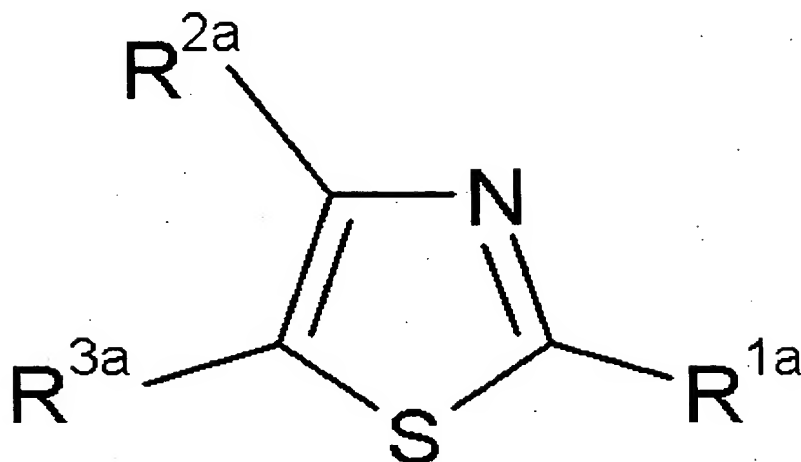
JP 11193281	A	JA	56		
EP 1027050	A2	EN		PCT Application	WO 1998JP4837
				Based on OPI patent	WO 1999021555
Regional Designated States,Original	AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE				
US 6436966	B1	EN		PCT Application	WO 1998JP4837
				Based on OPI patent	WO 1999021555
US 6620825	B1	EN		Division of application	WO 1998JP4837
				Division of application	US 2000463639
				Division of patent	US 6436966
EP 1027050	B1	EN		PCT Application	WO 1998JP4837
				Based on OPI patent	WO 1999021555
Regional Designated States,Original	AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE				
DE 69821132	E	DE		Application	EP 1998950388
				PCT Application	WO 1998JP4837
				Based on OPI patent	EP 1027050
				Based on OPI patent	WO 1999021555

Alerting Abstract WO A2

NOVELTY – Use of new and known 1,3-azole compounds (I) substituted on the 4- and/or 5-position by an optionally substituted pyridyl, for antagonizing adenosine at adenosine A₃ receptors, is new.

DESCRIPTION – INDEPENDENT CLAIMS are also included for:

- A. compounds of formula (I'), and their salts; and
- B. a process for the preparation of (I').



(I')

R^{1a}= optionally substituted aromatic heterocyclic, amino (optionally substituted by one or more substituted carbonyl or optionally substituted hydrocarbon), optionally substituted cyclic amino or acyl;

R^{2a}= optionally substituted aromatic hydrocarbon; and

R^{3a}= optionally substituted pyridyl;

ACTIVITY – None given.

MECHANISM OF ACTION – Adenosine A₃ receptor antagonist.

In tests on affinity for adenosine A₃ receptor, N-(4-(4-methoxyphenyl)-5-(3-pyridyl)-1,3-thiazol-2-yl)acetamide had an IC₅₀ of 0.27 nM.

USE – The composition is useful for preventing and/or treating diseases related to adenosine A₃ receptor in mammals, particularly asthma or allergosis.

Title Terms /Index Terms/Additional Words: NEW; AZOLE; COMPOUND; ADENOSINE; RECEPTOR; ANTAGONIST

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61K-031/44; C07D-417/04			Main		"Version 7"
A61K-031/00; A61K-031/445; A61K-031/535; A61P-011/06; A61P-003/10; A61P-037/08; C07D-417/14			Secondary		"Version 7"
A61K-0031/4436	A	I		R	20060101

A61K-0031/4439	A	I	R	20060101
A61K-0031/4427	C	I	R	20060101

US Classification, Issued: 514340000, 514341000, 514342000, 546270400, 546271400, 546274400, 514340000, 514341000, 514342000, 546270400, 546271400, 546274400

File Segment: CPI

DWPI Class: B03; C02

Manual Codes (CPI/A-N): B07-D04B; B07-D04C; B07-D05; B07-E03; B07-F01; B14-G02A; B14-K01A; B14-L06; C07-D04B; C07-D04C; C07-D05; C07-E03; C07-F01; C14-G02A; C14-K01A; C14-L06

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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : A61K 31/44	A2	(11) International Publication Number: WO 99/21555 (43) International Publication Date: 6 May 1999 (06.05.99)
<p>(21) International Application Number: PCT/JP98/04837</p> <p>(22) International Filing Date: 26 October 1998 (26.10.98)</p> <p>(30) Priority Data: 9/294485 27 October 1997 (27.10.97) JP</p> <p>(71) Applicant (<i>for all designated States except US</i>): TAKEDA CHEMICAL INDUSTRIES, LTD. [JP/JP]; 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0045 (JP).</p> <p>(72) Inventors; and (75) Inventors/Applicants (<i>for US only</i>): OHKAWA, Shigenori [JP/JP]; 45-20, Makamicho 6-chome, Takatsuki-shi, Osaka 569-1121 (JP). KIMURA, Hiroyuki [JP/JP]; 2-20-808, Oohamanakamachi 1-cho, Sakai-shi, Osaka 590-0975 (JP). KANZAKI, Naoyuki [JP/JP]; 2-15-203, Taishomachi, Ibaraki-shi, Osaka 567 (JP).</p> <p>(74) Agents: ASAHINA, Tadao et al.; Osaka Plant of Takeda Chemical Industries, Ltd., 17-85, Jusohonmachi 2-chome, Yodogawa-ku, Osaka-shi, Osaka 532-0024 (JP).</p>		<p>(81) Designated States: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>Without international search report and to be republished upon receipt of that report.</i></p>
<p>(54) Title: ADENOSINE A₃ RECEPTOR ANTAGONISTS</p>		
<p>(57) Abstract</p> <p>A pharmaceutical composition for antagonizing adenosine at adenosine A₃ receptors which comprises a 1,3-azole compound substituted on the 4- or 5- position, or both, by a pyridyl which may be substituted is provided and can be used as a prophylactic and therapeutic agent for asthma, allergosis, inflammation, and so on.</p>		